

# SAFETY DATA SHEET

Issue Date 2003 03 01

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Version 6.11

# **1. IDENTIFICATION**

<u>Product identifier</u> Product Name	McLUBE MoS2-400
Other means of identification Product Code Synonyms	MOS2-400 Mixture
Recommended use of the chemical Recommended Use	and restrictions on use Petroleum Grease with Molybdenum Disulfide.
Uses advised against	
Details of the supplier of the safety	data sheet
Manufacturer Address	McGee Industries, Inc. 9 Crozerville Rd P.O. Box 2425 Aston, PA 19014
E-mail address	info@mclube.com
Emergency telephone number Company Phone Number	1-800-262-5823 (Within US) 1-610-459-1890
Emergency Telephone	CHEMTREC: 1-800-424-9300 (Within US) 1-703-527-3887 (Outside US)

# 2. HAZARDS IDENTIFICATION

#### **Classification**

#### **OSHA Regulatory Status**

This material is not considered hazardous. This information is supplied under the OSHA Hazard Communication Standard (29 CFR 1910.1200), and is offered in good faith based on data available to us that we believe to be true and accurate.

#### Label elements

**Emergency Overview** 

Appearance Blue-gray to black

Physical state Semi-solid

Odor Bland

# **Precautionary Statements - Prevention**

P262: Do not get in eyes, on skin, or on clothing P264: Wash skin thoroughly after handling P280: Wear protective gloves and eye / face protection

#### **Precautionary Statements - Response**

P302 + P352: IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing P337 + P313: If eye irritation persists: Get medical advice/attention P301 + P330: IF SWALLOWED: Rinse mouth P391: Collect spillage

#### Precautionary Statements - Storage

P403 + P233: Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

P501: Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

No information available

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance

Not applicable

<u>Mixture</u>

Synonyms Chemical nature Mixture. Petroleum Grease with Molybdenum Disulfide

# **Component Information:**

Chemical Name	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petroleum distillates, solvent dewaxed heavy paraffinic - DMOS-extract < 3%	64742-65-0	85.0-90.0	Asp. Tox. 1, H304
Lithium 12-hydroxystearate	7620-77-1	5.0-10.0	
Molybdenum disulfide	1317-33-5	1.0-5.0	
Antimony Diamyldithiocarbamate	15890-25-2	1.0-5.0	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Aquatic Chronic 2 (H411)

The exact percentage (concentration) of composition has been withheld as a trade secret.

Amounts listed are typical and do not represent a specification. Remaining components are proprietary, nonhazardous, and/or present at amounts below reportable limits.

For the full text of the Classifications and Hazard Statements mentioned in this Section, see Section 16

Mineral Oil may be substituted with one or more of the following CAS#: 64741-88-4, 64741-89-5, 64741-44-2, 64741-69-4, 64741-97-5, 64742-46-7, 64742-52-5, 64742-53-6, 64742-55-8, 64742-56-9, 64742-62-7, 64742-65-0, 72623-65-0, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 69029-75-0, 64742-01-4, and 64741-95-3.

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346

# 4. FIRST AID MEASURES

**Description of first aid measures** 

General advice	Use first aid treatment according to the nature of the injury. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt, seek medical advice.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists: Get medical advice/attention.
Skin contact	Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.
Inhalation	Not an expected route of exposure. If symptoms persist, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Potential for aspiration if swallowed. Clean mouth with water. Get medical attention if symptoms occur.
Self-protection of the first aider	Use personal protection recommended in Section 8.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Irritating to eyes. Irritating to skin.
Indication of any immediate medica	al attention and special treatment needed
Note to physicians	Treat symptomatically.
	5. FIRE-FIGHTING MEASURES
<u>Suitable extinguishing media</u> Water spray, carbon dioxide (CO2), d circumstances and the surrounding e	ry chemical, alcohol-resistant foam. Use extinguishing measures that are appropriate to local nvironment.
Unsuitable extinguishing media	
	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the <u>chemical</u>	Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Hazardous combustion products	Carbon oxides. Oxides of sulfur. Molybdenum trioxide.

Explosion dataSensitivity to Mechanical ImpactNone.Sensitivity to Static DischargeNone.

Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
	6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective ec	quipment and emergency procedures	
Personal precautions	Avoid contact with eyes and skin. Remove all sources of ignition.	
Other Information	Extremely slippery when spilled.	
Environmental precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Collect spillage. Do not flush into surface water or sanitary sewer system.	
Methods and material for containm	ent and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Scrape up spilled material with shovels into a suitable container for recycle or disposal. Clean contaminated surface thoroughly.	
	7. HANDLING AND STORAGE	
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	
Incompatible materials	Strong oxidizing agents.	
8. EX	POSURE CONTROLS/PERSONAL PROTECTION	

# Control parameters

**Exposure Guidelines** 

Components with Workplace Control Parameters:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, solvent dewaxed heavy paraffinic - DMOS-extract < 3% 64742-65-0	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m³	-
Molybdenum disulfide 1317-33-5	TWA: 10 mg/m³ Mo inhalable fraction TWA: 3 mg/m³ Mo respirable fraction	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ Mo	IDLH: 5000 mg/m <sup>3</sup> Mo
Antimony Diamyldithiocarbamate 15890-25-2	TWA: 0.5 mg/m³ Sb	TWA: 0.5 mg/m³ Sb (vacated) TWA: 0.5 mg/m³ Sb	IDLH: 50 mg/m³ Sb TWA: 0.5 mg/m³ Sb

Appropriate engineering controls

#### **Engineering Controls**

Showers Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	Provide adequate ventilation.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold	Semi-solid Blue-gray to black Blue-gray to black Bland No data available	
Property pH	<u>Values_</u> No data available	Remarks • Method
Melting point/freezing point Boiling point / boiling range	No data available 371 °C / 700 °F	
Flash point	232 °C / 450 °F	ASTM D92
Evaporation rate	No data available	
Flammability (solid, gas) Flammability Limit in Air	No data available	
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available No data available	
Vapor density Specific Gravity		g/ml @ 20°C
Water solubility	Insoluble in water	9 @ 20 0
Solubility in other solvents	No data available	
Partition coefficient Autoignition temperature	No data available No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties Oxidizing properties	Not applicable No data available	
Other Information		
Softening point	No data available	
Molecular weight	No data available	
VOC Content (%)	No data available 7.51	lbs./gal.
Density Bulk density	No data available	ibs./gai.
-		
	10. STABILITY AND READ	
<u>Reactivity</u>	Stable	
Chemical stability		
<u>Stability</u>	Stable	
Hazardous polymerization	Hazardous polymerization does not or	ccur.
Conditions to avoid	Excessive heat.	

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides. Oxides of sulfur. Molybdenum trioxide.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Inhalation	Not an expected route of exposure.
Eye contact	May cause slight irritation.
Skin contact	May cause irritation.
Ingestion	Not an expected route of exposure.

#### **Component Information:**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Molybdenum disulfide	-	-	> 2820 mg/m³ (Rat)4 h
1317-33-5			

#### Information on toxicological effects

Symptoms

Skin: Irritation, redness, itchiness Eyes: Irritation, redness, watering, itchiness

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity Carcinogenicity	No informati	on available. on available. low indicates whether each	agency has listed any ing	gredient as a carcinogen.
Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum distillates, solvent dewaxed heavy paraffinic - DMOS-extract < 3% 64742-65-0	A2	Group 1	-	X
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	No information available.			

## Numerical measures of toxicity - Product Information

# 12. ECOLOGICAL INFORMATION

Marine pollutant

No.

Ecotoxicity

The environmental impact of this product has not been fully investigated

#### Component Information:

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Petroleum distillates, solvent dewaxed heavy paraffinic - DMOS-extract < 3% 64742-65-0	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50

Persistence and degradability	No information available.
<b>Bioaccumulation</b>	No information available.
Mobility	The product is insoluble and floats on water.
Other adverse effects	No information available
	13. DISPOSAL CONSIDERATIONS
Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Antimony Diamyldithiocarbamate	Toxic
15890-25-2	

# 14. TRANSPORT INFORMATION

<u>DOT</u>	Not Regulated
ICAO (air)	Not Regulated
IATA	Not Regulated
IMDG	Not Regulated

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances **PICCS** - Philippines Inventory of Chemicals and Chemical Substances **AICS** - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Antimony Diamyldithiocarbamate - 15890-25-2	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Antimony Diamyldithiocarbamate 15890-25-2	-	Х	-	-

# <u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Molybdenum disulfide 1317-33-5	Х	Х	Х
Antimony Diamyldithiocarbamate 15890-25-2	Х	-	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS_	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X

# Key to Classifications and Hazard Statements contained in Sections 2 and 3

Asp. Tox. 1 (H304): May be fatal if swallowed and enters airways; Aspiration, Cat 1

Acute Tox. 4 (H302): Harmful if swallowed; Acute toxicity, oral, Cat 4

Acute Tox. 4 (H332): Harmful if inhaled; Acute Toxicity , Inhalation, Cat 4

Aquatic Chronic 2 (H411): Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

Issue Date	2003 03 01
Revision Date Revision Note	2015 07 07

2003 03 01: Initial release

2006 03 06: Modified to conform to 16 part format of ANSI Standard Z400.1-2004.

2007 05 16: Modified to correct environmental and ecological hazards identifications.

2010 04 15: Modified to update expiring issue date.

2013 03 15: Modified to update expiring issue date.

2015 06 07: Modified to conform to 29 CFR 1910 (OSHA HCS).

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

End of Safety Data Sheet